

Childhood Immunizations Combo 7

November 2020

Measure Description

The percentage of children 2 years of age who had four diphtheria, tetanus and acellular pertussis (DTaP); three polio (IPV); one measles, mumps and rubella (MMR); three H influenza type B (HiB); three hepatitis B (Hep B), one chicken pox (VZV); four pneumococcal conjugate (PCV); one hepatitis A (Hep A); two or three rotavirus (RV); and two influenza (flu) vaccines by their second birthday. The measure calculates a rate for each vaccine and nine separate combination rates.

Evaluation Period

Calendar Year

Numerator

For MMR, hepatitis B, VZV and hepatitis A, count any of the following:

- Evidence of the antigen or combination vaccine.
- Documented history of the illness.
- A seropositive test result for each antigen.

For DTaP, IPV, HiB pneumococcal conjugate, rotavirus and influenza, count only:

- Evidence of the antigen or combination vaccine.
- For combination vaccinations that require more than one antigen (i.e., DTaP and MMR), the organization must find evidence of all the antigens.

DTaP At least four DTaP vaccinations (DTaP Vaccine Administered Value Set), with different dates of service on or before the second birthday. Do not count any vaccination administered prior to 42 days after birth.

IPV At least three IPV vaccinations (Inactivated Polio Vaccine (IPV) Administered Value Set), with different dates of service on or before the second birthday. IPV administered prior to 42 days after birth cannot be counted.



MMR Any of the following with a date of service on or before the child's second birthday meet

criteria:

- At least one MMR vaccination (Measles, Mumps and Rubella (MMR) Vaccine Administered Value Set).
- At least one measles and rubella vaccination (Measles/Rubella Vaccine Administered Value Set) and at least one mumps vaccination or history of the illness (Mumps Vaccine Administered Value Set; Mumps Value Set) on the same date of service or on different dates of service.
- At least one measles vaccination or history of the illness (Measles Vaccine
 Administered Value Set; Measles Value Set) and at least one mumps vaccination or
 history of the illness (Mumps Vaccine Administered Value Set; Mumps Value Set) and
 at least one rubella vaccination or history of the illness (Rubella Vaccine Administered
 Value Set; Rubella Value Set) on the same date of service or on different dates of
 service.

Note: The "Collecting Data for Measures With Multiple Numerator Events" Guideline (i.e., the 14-day rule) does not apply to MMR.

HiB At least three HiB vaccinations (Haemophilus Influenzae Type B (HiB) Vaccine Administered Value Set), with different dates of service on or before the second birthday. Do not count any vaccination administered prior to 42 days after birth.

Hepatitis B Any of the following on or before the child's second birthday meet criteria:

- At least three hepatitis B vaccinations (Hepatitis B Vaccine Administered Value Set), with different dates of service.
- One of the three vaccinations can be a newborn hepatitis B vaccination (Newborn Hepatitis B Vaccine Administered Value Set) during the eight-day period that begins on the date of birth and ends seven days after the date of birth. For example, if the patient's date of birth is December 1, the newborn hepatitis B vaccination must be on or between December 1 and December 8.
- History of hepatitis illness (Hepatitis B Value Set).

VZV Either of the following on or before the child's second birthday meets criteria:

- At least one VZV vaccination (Varicella Zoster (VZV) Vaccine Administered Value Set), with the date of service on or before the second birthday.
- History of varicella zoster (e.g., chicken pox) illness (Varicella Zoster Value Set).

Pneumococcal conjugate

At least four pneumococcal conjugate vaccinations (Pneumococcal Conjugate Vaccine Administered Value Set), with different dates of service on or before the second birthday. Do not count any vaccination administered prior to 42 days after birth.

Hepatitis A Either of the following on or before the child's second birthday meets criteria:



- At least one hepatitis A vaccination (Hepatitis A Vaccine Administered Value Set), with a
 date of service on or before the second birthday.
- History of hepatitis A illness (Hepatitis A Value Set).

Rotavirus Any of the following on or before the second birthday. Do not count any vaccination administered prior to 42 days after birth.

- At least two doses of the two-dose vaccine (Rotavirus Vaccine (2 Dose Schedule)
 Administered Value Set) on different dates of service.
- At least three doses of the three-dose vaccine (Rotavirus Vaccine (3 Dose Schedule Administered Value Set) on different dates of service.
- At least one dose of the two-dose vaccine (Rotavirus Vaccine (2 Dose Schedule)
 Administered Value Set) <u>and</u> at least two doses of the three-dose vaccine (Rotavirus Vaccine (3 Dose Schedule) Administered Value Set), all on different dates of service.

Influenza Two influenza vaccinations (Influenza Vaccine Administered Value Set), with different dates of service on or before the second birthday. Do not count any vaccination administered prior to 6 months (180 days) after birth.

Combination rates

Calculate the following rates for Combination 2–Combination 10.

Combination	DTaP	IPV	MMR	Hib	Нер В	VZV	PCV	Нер А	RV	Influenza
Combo 2	X	X	X	X	X	X				
Combo 3	X	X	X	X	X	X	X			
Combo 4	X	X	X	X	X	X	X	X		
Combo 5	X	X	X	X	X	X	X		X	
Combo 6	X	X	X	X	X	X	X			X
Combo 7	X	X	X	X	X	X	X	X	X	
Combo 8	X	X	X	X	X	X	X	X		X
Combo 9	X	X	X	X	X	X	X		X	X
Combo 10	X	X	X	X	X	X	X	X	X	X

Immunization	Condition Description	Detailed Criteria		
DTaP	At least four DTaP vaccinations, with different dates of	CPT Codes (90698, 90700, 90721,		
	service on or before the second birthday. Do not count any vaccination administered prior to 42 days after birth.			
IPV	At least three IPV vaccinations, with different dates of service on or before the second birthday. IPV administered prior to 42 days after birth cannot be counted	CPT Codes (90698, 90713, 90723)		
MMR	Any of the following with a date of service on or before the child's second birthday meet criteria:			
	At least one MMR vaccination	CPT Codes (90707, 90710)		
	2. At least one measles and rubella vaccination and	CPT Code (90708)		
	at least one mumps vaccination or history of the	AND		
		CPT Code (90704)		



	illness on the same date of service or on different dates of service.			
HiB	At least three HiB vaccinations, with different dates of service on or before the second birthday. Do not count any vaccination administered prior to 42 days after birth. CPT Codes (90644, 90645, 90646, 90647, 90648, 90698, 90721, 90748)			
Hepatitis B	Any of the following on or before the child's second birthday meet criteria:			
	 At least three hepatitis B vaccinations with different dates of service. One of the three vaccinations can be a newborn hepatitis B vaccination during the 	CPT Codes (90723, 90740, 90744, 90747, 90748) HCPCS Code (G0010)		
	eight-day period that begins on the date of birth and ends seven days after the date of birth. For example, if the patient's date of	Newborn Hepatitis B: ICD10 Code (3E0234Z)		
	birth is December 1, the newborn hepatitis B vaccination must be on or between December 1 and December 8.			
	History of hepatitis illness	ICD10 Codes (B16.0, B16.1, B16.2, B16.9, B17.0, B18.0, B18.1, B19.10, B19.11, Z22.51)		
VZV	Either of the following on or before the child's second birthday meets criteria:			
	At least one VZV vaccination with the date of service on or before the second birthday.	CPT Codes (90710, 90716)		
	History of varicella zoster (e.g., chicken pox) illness	ICD10 Codes (B01.0, B01.11, B01.12, B01.2, B01.81, B01.89, B01.9, B02.0, B02.1, B02.21, B02.22, B02.23, B02.24, B02.29, B02.30, B02.31, B02.32, B02.33, B02.34, B02.39, B02.7, B02.8, B02.9)		
Hepatitis A	Either of the following on or before the child's second birthday meets criteria:	,		
	At least one hepatitis A vaccination with a date of service on or before the second birthday.	CPT Code (90633)		
	History of hepatitis A illness	ICD10 Codes (B15.0, B15.9)		
Rotavirus	Any of the following on or before the second birthday. Do not count any vaccination administered prior to 42 days after birth.			
	At least two doses of the two-dose vaccine on different dates of service	CPT Code (90681)		
	At least three doses of the three-dose vaccine on different dates of service.	CPT Code (90680)		
	At least one dose of the two-dose vaccine and at least two doses of the three-dose vaccine all on different dates of service.	At least 1 dose of 2 dose vaccine: CPT Code (90681) AND At least 2 doses of 3 dose vaccine: CPT Code (90680)		



Influenza	Two influenza vaccinations, with different dates of service on or	CPT Codes (90655, 90657, 90660,
	before the second birthday. Do not count any vaccination	90661, 90662, 90762, 90673, 90685,
	administered prior to 6 months (180 days) after birth.	90687)

Denominator

Children who turn 2 years of age during the measurement year.

Denominator Exclusions

- 1. Exclude children who had a contraindication for a specific vaccine from the denominator for all antigen rates and the combination rates. The denominator for all rates must be the same.
- 2. Exclude contraindicated children only if administrative data do not indicate that the contraindicated immunization was rendered in its entirety.
- 3. Any of the following on or before the patient's second birthday meet exclusion criteria

Immunization	Condition Description	Detailed Criteria			
Any particular	Anaphylactic reaction to the	ICD10 Codes (T80.52XA, T80.52XD, T80.52XS)			
vaccine	vaccine or its components				
DTaP	Encephalopathy	ICD10 Code (G04.32)			
	WITH	WITH			
	a vaccine adverse-effect	(Vaccine Causing Adverse Effect Value Set)			
_	code	ICD10 Codes (T50.A15A, T50.A15D, T50.A15S)			
MMR, VZV and	Immunodeficiency	ICD10 Codes (D80.0, D80.1, D80.2, D80.3, D80.4, D80.5, D80.6, D80.7,			
influenza		D80.8, D80.9, D81.0, D81.1, D81.2, D81.4, D81.6, D81.7, D81.89,			
		D81.9, D82.0, D82.1, D82.2, D82.3, D82.4, D82.8, D82.9, D83.0, D83.1,			
		D83.2, D83.8, D83.9, D84.0, D84.1, D84.8, D84.9, D89.3, D89.810,			
	1177	D89.811, D89.812, D89.813, D89.82, D89.89, D89.9)			
	HIV	ICD10 Codes (B20, Z21, B97.35)			
	Lymphoreticular cancer,	ICD10 Codes (C81.00, C81.01, C81.02, C81.03, C81.04, C81.05, C81.06,			
	multiple myeloma or	C81.07, C81.08, C81.09, C81.10, C81.11, C81.12, C81.13, C81.14,			
	leukemia	C81.15, C81.16, C81.17, C81.18, C81.19, C81.20, C81.21, C81.22,			
		C81.23, C81.24, C81.25, C81.26, C81.27, C81.28, C81.29, C81.30, C81.31, C81.32, C81.33, C81.34, C81.35, C81.36, C81.37, C81.38,			
		C81.39, C81.40, C81.41, C81.42, C81.43, C81.44, C81.45, C81.46,			
		C81.47, C81.48, C81.49, C81.70, C81.71, C81.72, C81.73, C81.74,			
		C81.75, C81.76, C81.77, C81.78, C81.79, C81.90, C81.91, C81.92,			
		C81.93, C81.94, C81.95, C81.96, C81.97, C81.98, C81.99, C82.00,			
		C82.01, C82.02, C82.03, C82.04, C82.05, C82.06, C82.07, C82.08,			
		C82.09, C82.10, C82.11, C82.12, C82.13, C82.14, C82.15, C82.16,			
		C82.17, C82.18, C82.19, C82.20, C82.21, C82.22, C82.23, C82.24,			
		C82.25, C82.26, C82.27, C82.28, C82.29, C82.30, C82.31, C82.32,			
		C82.33, C82.34, C82.35, C82.36, C82.37, C82.38, C82.39, C82.40,			
		C82.41, C82.42, C82.43, C82.44, C82.45, C82.46, C82.47, C82.48,			
		C82.49, C82.50, C82.51, C82.52, C82.53, C82.54, C82.55, C82.56,			
		C82.57, C82.58, C82.59, C82.60, C82.61, C82.62, C82.63, C82.64,			



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		C82.65, C82.66, C82.67, C82.68, C82.69, C82.80, C82.81, C82.82,	
		C82.83, C82.84, C82.85, C82.86, C82.87, C82.88, C82.89, C82.90,	
		C82.91, C82.92, C82.93, C82.94, C82.95, C82.96, C82.97, C82.98,	
		C82.99, C83.00, C83.01, C83.02, C83.03, C83.04, C83.05, C83.06,	
		C83.07, C83.08, C83.09, C83.10, C83.11, C83.12, C83.13, C83.14,	
		C83.15, C83.16, C83.17, C83.18, C83.19, C83.30, C83.31, C83.32,	
		C83.33, C83.34, C83.35, C83.36, C83.37, C83.38, C83.39, C83.50,	
		C83.51, C83.52, C83.53, C83.54, C83.55, C83.56, C83.57, C83.58,	
		C83.59, C83.70, C83.71, C83.72, C83.73, C83.74, C83.75, C83.76,	
		C83.77, C83.78, C83.79, C83.80, C83.81, C83.82, C83.83, C83.84,	
		C83.85, C83.86, C83.87, C83.88, C83.89, C83.90, C83.91, C83.92,	
		C83.93, C83.94, C83.95, C83.96, C83.97, C83.98, C83.99, C84.00,	
		C84.01, C84.02, C84.03, C84.04, C84.05, C84.06, C84.07, C84.08,	
		C84.09, C84.10, C84.11, C84.12, C84.13, C84.14, C84.15, C84.16,	
		C84.17, C84.18, C84.19, C84.40, C84.41, C84.42, C84.43)	
	Anaphylactic reaction to neon		
Rotavirus	. ,	,	
Rotavirus	Severe combined	ICD10 Codes (D81.0, D81.1, D81.2, D81.9)	
	immunodeficiency		
		TODAO O 1 (VEC 1)	
	History of intussusception	ICD10 Code (K56.1)	
IPV	Anaphylactic reaction to streptomycin, polymyxin B or neomycin		
Hepatitis B	Anaphylactic reaction to common baker's yeast.		

Notes

Measure Steward is NCQA

